

1982

## Graduate Bulletin, 1982-1984 (1982)

Moorhead State University

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# **graduate bulletin**

**1982-1984 moorhead state university**

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# Programs Offered

## **Master of Science**

- Professional Education

- Art Education

- Business Education

- Chemistry Education

- Educational Theatre

- Elementary Education

- Music Education

- Remedial Reading

- Special Education

## **Other Professional Programs**

- Computer Science

- Counseling and Guidance

- School Psychology

- Speech/Language Pathology and Audiology

## **Master of Business Administration**

## **Master of Liberal Arts**

## **Fifth Year Program**

## **Educational Administration**

Moorhead State University cooperates in programs leading to the Master of Science and Specialist in Education degrees offered by the Tri-College University.

# General Information

## The University

Moorhead State University, established in 1885 as a Normal School, graduated its first students in 1890 and following years of growth and maturity now enrolls approximately 8200 students in its instructional offerings on campus and in the surrounding area in Minnesota. Bachelor's degrees may now be earned in 68 major fields of study. Graduate instruction was authorized in 1953, and the first Master's degree was conferred in 1957. Master's degrees presently are offered in 14 majors, and a Fifth Year Program of study is available to teachers who may select from course offerings of more than 25 departments. In the University's commitment of service to persons in its area, about 15 percent of its graduate instruction is being provided in a number of off-campus locations in northwestern Minnesota. Programs offered by Moorhead State University are accredited by the North Central Association of Colleges and Secondary Schools and by the National Council for Accreditation of Teacher Education.

The University occupies a 104-acre campus in Moorhead, Minnesota. Most of the 28 major buildings on the campus have been constructed since 1957. Extensive library holdings and an excellent computer facility are supplemented by cooperative arrangements among institutions in the community and through statewide networks linking this University with others in Minnesota. Laboratories and study centers are available with modern equipment to enable a wide variety of research.

Moorhead State University has become a cultural and intellectual center of western Minnesota. Moorhead and adjacent Fargo, North Dakota, have a population of about 100,000. Many organizations and projects in the community are mutually supportive of the programs of the University and two other institutions of higher education, Concordia College and North Dakota State University. The three institutions form a broadly cooperative consortium, the Tri-College University, through which expanded instructional offerings are available by home-campus registration.

## **Employment Opportunities and Financial Aids**

A limited number of Graduate Assistantships are available to which students in Master's programs may be appointed. These assistantships generally require 10 to 12 hours of duties per week and provide opportunity for gaining experience in the field of major interest by duties performed under close faculty supervision. Inquiries should be directed to the Office of Graduate Studies.

Some departments hire student help on an hourly basis and should be contacted directly for information on such assignments. Both a Job Shop and Placement Office are located on campus and may be consulted for part-time job listings which are available in the community. The University participates in the College Work Study, and the National Direct and Guaranteed Student Loan programs. Eligibility for participation in these programs may be investigated by contacting the Student Financial Aid Office. Veterans are encouraged to seek the assistance of the office for counseling and GI Bill certifications.

## **Housing and Dining Facilities**

Accommodations are available in five residence halls and dining services are available on campus throughout the year. Graduate students may be assigned as resident hall assistants. Inquiries relating to housing should be directed to the Housing Office.

## **Admission to Graduate Study**

Persons with a baccalaureate degree from an accredited college or university may apply for admission to a Master's Program, the Fifth Year Program, or as a Graduate Special Student.

All students applying for admission to Moorhead State University for the first time must submit with their application a check or money order for \$10.00. This application is non-refundable.

## **Application Deadlines**

Students desiring admission to a Master's Program or Fifth Year Program must complete the application file by August 15 (for the fall quarter), November 15 (for the winter quarter), February 15 (for the spring quarter) or

May 15 (for the summer sessions). Some departments require earlier application to programs of limited enrollment. Such information will be provided in program descriptions in the graduate bulletin.

A student may be admitted in Graduate Special status at any time prior to first registration on completion of the application process (see below). All application materials may be obtained from the Graduate Studies Office.

## **Admission to a Master's Program**

Specific requirements for the degree of Master of Science, Master of Business Administration, or Master of Liberal Arts are defined in each particular section of this bulletin. All materials for the application file are to be submitted to the Graduate Studies Office, and the file must be complete before its review will be initiated.

## **Admission to Fifth Year Program**

The application, with an official transcript, must be filed with the Graduate Studies Office. Specific requirements for admission are given in this bulletin, under the section entitled the Fifth Year Program.

## **Admission as a Graduate Special Student**

A student desiring to take courses for graduate credit but not seeking admission to a Master's or Fifth Year Program must complete an application for admission. Should admission to a program be desired at a later date the student must submit a complete application for that program and meet the same admission criteria in effect for other students. Credits earned in Graduate Special Status which later might be counted in fulfilling minimum requirements for a program may not exceed nine hours for the Master's degree or 15 hours for a Fifth Year Program.

## **Senior Registration**

A senior enrolled at Moorhead State University, Concordia College, or NDSU who has 12 quarter hours or fewer to complete for graduation may be permitted by the Graduate Dean to enroll in courses to be held for graduate credit. This permission must be obtained in advance of registration.

# Registration, Tuition and Fees

## Registration

Graduate students are expected to register during the regular registration period at the beginning of each quarter or summer session. For evening and off-campus courses only, students register at the first class meeting. During the academic year, the normal graduate load per quarter is 12 to 15 quarter hours depending upon laboratory and research work. The normal load in each summer session is 6 to 8 quarter hours. Permission of the Graduate Dean is required for registration in excess of 15 credits in any academic term.

## Graduate Courses

Graduate credit may be earned in offerings at the 500-level (open to graduate students only) and in "g" courses (open to advanced undergraduate students and to graduate students). There shall be a qualitative differentiation in all work for graduate credit. In the "g" courses the graduate student, through a specific product or performance, will satisfy additional requirements which will demonstrate an understanding of theoretical concepts beyond that expected of the undergraduate student.

## Grading System

Grades given in graduate courses include A, B, C, D, F, and S (Satisfactory). In a continuing research course a student may be given a grade of X until the course is completed. W signifies withdrawal from the course. Only those credits which were completed with a grade of A, B, or S (or C in some programs) may be applied towards a Master's degree.

The mark of I (Incomplete) is given in cases where it is beyond the student's control to complete the last course requirements and when arrangements have been made with the instructor before the end of the quarter. It is the responsibility of the student to make arrangements for removing an Incomplete.

A student's grade point average is computed from credits earned in which the grades of A, B, C, D, and F are given. A grade A earns 4 grade points per credit hour; B, 3 grade points; C, 2 grade points; D, 1 grade point and F, 0 grade points. An Incomplete (I) is counted as an F until it is made up.

## **Auditing Courses**

An entry of V (visitor or auditor) may be made upon a student's permanent record when a course is audited. As an auditor a student may attend all class sessions, but need not complete assignments or projects, take part in class discussion, or take examinations. A student who wishes to audit a course must register and pay tuition and fees as though taking the course for credit. A student may change from regular (credit) to audit status with the written permission of the instructor through the tenth day of classes during the regular quarter, or the fourth day of classes in a summer session. Credit may not be earned in courses taken as a visitor or auditor except by re-enrollment for credit and completion of the course with a satisfactory grade.

## **Tuition and Fees**

Tuition and fees are set by the Minnesota State University Board and are subject to change. Present tuition rates are:

### **Minnesota resident**

\$22.60 per quarter hour credit

### **Non-resident**

\$45.45 per quarter hour credit

Residents of Minnesota 62 years of age or older may register for courses in which space is available by paying an administration fee of \$6 per credit hour. Application for such permission should be made with the Admissions and Records Office.

Residents of North Dakota, South Dakota, or Wisconsin may apply for tuition reciprocity privilege by submitting forms, available on request from the Graduate Studies or Registrar's Office, to the higher education agency in their home state.

Late registration and change-of-registration fees are chargeable. Graduate students enrolling for undergraduate courses pay the current undergraduate tuition. The University's general catalog should be consulted for additional information.

Fees are payable at the time of registration each quarter at the rate of \$3.15 per credit hour registered to a maximum of \$54.00 in an academic term.



# Master of Science

The Master of Science degree is offered by Moorhead State University to extend the potential for performance in education or in other fields requiring advanced professional preparation. Completion of the degree will not, in itself, qualify one for an earned professional or teaching licensure. However, all persons entering or completing the degree program will be required to have presented evidence of experience appropriate to the field of study.

Programs pertaining to education-delivery will require evidence of having had some experience in such a system. This may be demonstrated by an earned teaching certificate; or by evidence for the equivalent of nine months of full-time experience in a position of responsibility directly related to the delivery of education; or by the completion of a planned and approved internship of 120 hours within a period of 3-6 continuous months. In addition to undergraduate work determined as appropriate by individual departments or areas, the student is expected to present work, not a part of the minimum requirements for the degree, representing not less than 12 credits earned in courses relating to at least four of the following fields: teaching and curriculum planning, human development and educational psychology, guidance and assessment, administration, area specialty education studies.

For non-teaching professional programs (Computer Science, Counseling and Guidance, School Psychology, and Speech/Language Pathology and Audiology) the prerequisite preparation is appropriate to the field and as stated in the major program description.

## Admission

Admission to a Master of Science degree program requires an undergraduate grade point average of 2.75, or 3.25 for the most recent 45 quarter hour credits of graded coursework, based on a 4.0 scale, and submission of scores on the Graduate Record examination (General Aptitude) or Miller Analogies Test as required in specific programs. Some departments have additional requirements for admission, therefore applicants should consult sections in the graduate bulletin prior to preparing

an application. A completed application form is required along with official transcripts of all college or university work taken, scores on the required test(s), and specific materials required by a department, before review of the application will be initiated. Departmental approval is required for admission to a graduate program and will in no case be waived, but approval by the major department does not guarantee admission to graduate study.

A minimum grade point average of 3.0 is required for continuation in a program. Students whose grade point average falls below 3.0 will be placed on probationary status. The record will be reviewed by the major department and by the Dean of Graduate Studies after completion of 12-15 additional hours of credit to determine continuing status, but in no case will continuation in the program be permitted if the grade point average remains less than 3.0 at the time of the review.

Admission to a graduate study program does not guarantee that the applicant will be advanced to Candidacy for an advanced degree.

### **General Course Requirements**

A minimum of 45 graduate credits are required for Plan A, or 48 graduate credits for Plan B. In either plan at least 23 credits will be earned at the 500-level. All programs having education as the professional component will include at least nine credits to be earned in coursework (other than research or statistics) offered by the Department of Education and approved by a Graduate Faculty representative of that department. Not more than nine hours in workshops (499g) or in special in-service (489g) courses may be counted toward the minimum requirements for the degree.

Unless otherwise specified in the major description the program may be completed under either of two Plans:

#### **Plan A**

**Group I** Research Component (9-12 credits); Thesis (6 credits); and coursework in research methods required, statistics in research recommended.

**Group II** Major (21 credits minimum)

**Group III** Electives, to be chosen from the major and/or related areas (3-6 credits)

#### **Plan B**

**Group I** Research Component (6-9 credits); Project (3 credits), coursework in research methods required.

**Group II** Major (24 credits minimum)

**Group III** Electives, to be chosen from the major and/or related areas (6-9 credits)

Areas of study are given on page 1 of this bulletin. Specific requirements for particular majors are given in the departmental or program section. The student, after being admitted to graduate study, will, in consultation with a departmental adviser, develop a preliminary plan of study which will meet the specific standards of the department as well as the general requirements for all Master's degrees.

### **Residence and Transfer Credit**

An approved program of study must include at least 36 credits to be completed after admission to study for the Master's degree. Subject to the approval of departments concerned a maximum of 15 credits may be accepted in transfer from other accredited institutions providing that they are included in a properly approved program (see Candidacy). Courses approved for registration through the Tri-College University are not subject to this transfer limitation. Subject to their inclusion in a program previously approved by the departments concerned and the Graduate Dean, courses constituting up to half of the minimum hours required for the degree may be taken at other Minnesota State Universities; however, in such instances the number of hours accepted from other institutions will be reduced correspondingly. A grade of A or B is required in any courses to be included in the program and not taken at this University. At least half of the hours constituting the minimum requirements for the degree will be completed through registrations at the University in offerings by its faculty.

### **Time Limitation**

A student may begin coursework up to six months after admission to graduate study. In most departments all requirements for the degree must be completed within seven years. In certain cases the Graduate Dean may consider a student's petition for an extension of time.

## **Research Components**

### **Thesis Research (Plan A)**

A part of the program of every Master's degree candidate under Plan A is the demonstration of ability to do individual, independent work of a creative or investigative kind in an area related to the major field through the preparation of a thesis. The thesis will be supported by the work represented in 6 hours of registration in Thesis 599 but not more than 6 hours of 599 may be counted in satisfying the minimum requirements for the Master's degree under Plan A. Credit hour registration in a given term may vary with the nature of the study, according to the department or area, and on the previous agreement between the student and the adviser for expected research effort and adequate supervision.

If research is to involve human subjects the research plan will be reviewed by an approved university procedure to assure the protection and rights of those subjects and the procedure established for obtaining informed consent. No research of this type will be initiated until it has been approved by an examining committee, the Graduate Dean, and the appropriate University Committee.

### **Project (Plan B)**

Students enrolled in the Master's program under Plan B will be required to complete a three-credit project which will integrate the studies included in the individual's program. The project must be approved by the major adviser and department. If human subjects are to be involved in research, the plan and assurances must be approved by the Graduate Dean and the appropriate University Committee before the research may be initiated.

### **Examining Committee**

A student planning to complete the Master's program under Plan A shall submit to the Graduate Studies Office, through the assigned adviser and major department, a request for the assignment of an examining committee. The committee shall consist of two or three Graduate Faculty members (including the adviser as chairperson) recommended by the major department and one from outside the major department selected by the Graduate Dean in consultation with the major adviser. The committee will be appointed by the Graduate

Dean and will be expected to meet in formal session with the student to consider a program of study and the plan for the thesis.

The examining committee for students following Plan B is appointed by the Graduate Dean following a request for the final oral examination. The committee will include at least two Graduate Faculty members (including the major adviser as chairperson) named by the major department and one from outside the major department selected by the Graduate Dean in consultation with the major adviser.

### **Admission to Candidacy**

After its meeting with the student following Plan A, and within 30 days of its appointment, the examining committee shall submit its report and recommendation on admission to Candidacy to the Graduate Office. The report shall include a recommended program of study and an approved plan for thesis research. The program shall not include more than 30 previously completed credits which may count toward the minimum requirements for the degree. The review of the thesis shall consider the topic, the student's initial familiarity with appropriate literature, and the research plan. An abstract of the thesis plan (one or two pages) prepared by the student shall accompany the committee's report. If the research will involve human subjects consideration to risk involved, provision for protection of subjects' rights and the procedure to be followed in obtaining informed consent will be included with the report. No research involving human subjects will be initiated until university clearance of the research is provided. Approval by the Graduate Dean of the committee's report will establish Candidacy.

Students following Plan B will petition, through the assigned adviser and major department, to the Graduate Office for admission to Candidacy. The petition shall include a proposed program of study and identify the general nature of the three-credit project. If the project is to involve human subjects, the same review and report (by the major department) will be submitted as is required for the thesis. The program of study shall include no more than 30 previously completed credits counting toward the

minimum requirements for the degree. Admission to Candidacy will be provided by the Graduate Dean upon approval of the proposed program and project.

A candidate for a Master's degree must maintain an overall grade point average of "B" in graduate studies. A degree candidate shall be placed on probation should the over-all grade point average fall below "B." Probational status will be removed if at the end of 12-15 additional quarter hours a "B" over-all grade point average has been achieved; otherwise the student will lose graduate status.

### **Comprehensive Examination**

At least three weeks before a final examination the candidate must demonstrate competence in the major field in a comprehensive examination. The major department will determine the nature of the examination which must be satisfactorily completed and reported to the Graduate Office before the oral examination can be held. If the program includes a separate education component, the satisfaction of that component will be determined and reported by the Department of Education. A student who fails to pass the comprehensive examination may appeal through the appropriate department to repeat it during a subsequent term. A second failure will result in termination of Candidacy for a degree.

### **Final Form for Thesis or Project Paper**

Standards for the preparation of a research thesis may be found in William G. Campbell: *Form and Style in Thesis Writing* or Kate L. Turabian: *Manual for Writers of Term Papers, Thesis and Dissertations*. Departments may modify style requirements to suit the specific need in their field. The student must work closely in regular and frequent consultation with the adviser and examining committee in the preparation of the thesis.

The thesis must be typewritten on sixteen or twenty pound rag-content bond paper. Offset and carbon methods of reproduction may be accepted. Suitable reproduction processes may be used for charts, graphs, etc. A left hand margin of one and one-half inches, a right hand margin of one inch, and top and bottom

margins of about one and one-quarter inches, each, are required. Either pica or elite type may be used.

The project, as an activity or product, will include a paper, normally to include a discussion of need for the project, a review of relevant literature or examples, a description of the application process, and recommendations for use or duplication. The project paper must be prepared in triplicate in the same manner as the thesis.

Neither the thesis nor the project paper should be bound in any permanent form prior to the oral examination.

### **Oral Examination**

When the comprehensive examination has been passed, all required coursework completed (except for the last courses in which the student is currently enrolled and in good standing), and the thesis or project paper completed, the candidate must—at least two weeks in advance—petition the Graduate Studies Office for an oral examination. The petition will be accompanied by an abstract prepared according to instructions from the Graduate Studies Office and typewritten copies of the thesis or project paper in sufficient number for all members of the examining committee.

The oral examination will be conducted by the examining committee and the Graduate Dean principally on the research but it may require the candidate to deal with material covered in coursework a part of the program. If serious weaknesses in the candidate's performance or in the research and/or its presentation are determined, these shall be specifically explained to the candidate and the oral examination may be continued on a later date on the committee's approval. Failure to perform satisfactorily in the second half of the oral examination will result in termination of Candidacy.

### **Final Report**

After the oral examination has been successfully completed the student must submit three copies of the thesis with all corrections and additions required by the examining committee, to the University Library. The thesis must be accompanied by a final report form signed

by the adviser verifying that the final copy has been approved. The librarian will, upon receipt of the binding fee (approximately \$6.00 per volume), verify the thesis deposit by signing the final report, and will negotiate an agreement with a local bindery. Project papers and items of record are to be deposited with the major department. The chairperson will verify the deposit by signing the final report form. The student is responsible for submitting the final report form, with required signatures, to the Graduate Studies Office not later than two days prior to the date of Commencement.

# Master of Business Administration

This program is designed as a formal learning experience for the practitioner seeking a foundation for steady growth as a professional manager. Applicants must hold a Bachelor's degree from an accredited institution, and are required to provide scores on the Graduate Management Admission Test, letters of recommendation, and a personal statement of qualifications and career objectives. There must be demonstrated a proficiency in elementary economics (macro and micro), and elementary statistics prior to admission. Any deficiency following admission in basic finance, marketing, management (one course each), and accounting (one-year sequence) must be removed before graduate courses in the corresponding functional areas may be taken.

## General Course Requirements

The program requires a minimum of 48 quarter credits, in which a minimum grade point average of 3.0 is required. If a student accumulates two or more C grades, or one or more D or F grades the MBA Committee will, during the quarter following accumulation of such grades review the student's standing in the Program and may recommend a change of status or termination from the program. Not more than 12 credits earned at this or other accredited institutions prior to admission may be counted toward the minimum requirements for the degree. A maximum of 15 quarter credits included in a previously approved program may be accepted in transfer from other accredited institutions; however, at least 24 credits must be earned through registrations at this University in offerings by its faculty. The course requirements are as follows:

- MBA 529 Corporate Financial Reporting (4)
- MBA 530 Managerial Accounting (4)
- MBA 504 Macroeconomic Policy (4)
- MBA 502 Managerial Microeconomic Analysis (4)
- MBA 542 Financial Management (4)
- MBA 501 Statistics for Management (4)
- MBA 500 Professional Communication (4)
- MBA 550 Business and Society (4)
- MBA 555 Quantitative Analysis for Management (4)
- MBA 560 Organizational Policy (4)
- MBA 551 Organizational Theory and Behavior (4)
- MBA 510 Marketing Administration (4)

## **Candidacy**

It is essential that the student, upon admission, consult with the assigned adviser to plan initial registration. Prior to the close of the quarter previous to that in which the program is to be completed the student will petition for the formation of an Examining Committee (a major adviser as chairperson plus at least two additional members of the Graduate Faculty, one of these appointed by the Graduate Dean in consultation with the adviser). Upon approval of the Examining Committee the student is admitted to Candidacy for the degree. All requirements for the degree, including the Final Examination, must be completed within seven calendar years.

## **Final Examination**

The Final Examination shall be oral and conducted by the Examining Committee.

At least two weeks prior to the Final Examination the candidate shall present to the Graduate Studies Office an announcement prepared according to instructions of that office and a request for the examination. The examination shall be passed at least two weeks prior to the date of the Commencement at which the degree may be conferred.

## **Final Report**

After the Final Examination has been successfully completed, and at least two days prior to Commencement, the final report form with all required signatures shall be submitted to the Graduate Studies Office.



# Master of Liberal Arts

The Master of Liberal Arts program is designed for the post-baccalaureate student who is seeking an advanced educational experience that is interdisciplinary in nature and non-professional in intent. It emphasizes historical and cultural breadth rather than specialization in one field. The Master of Liberal Arts program establishes an environment which encourages the integration of learning and life experiences and provides college graduates an opportunity to develop further the competencies essential for participation in a world of unprecedented social and technological change.

Applicants must hold a bachelor's degree from an accredited institution. No specific major is required. A grade point average of 2.75 for the baccalaureate, or 3.25 for the most recent 45 credits of graded coursework, is required. Applicants presenting a lower average may present an appeal to the Graduate Dean for additional consideration.

A completed application, official transcript showing receipt of the bachelor's degree and the \$10 application fee, if not previously paid, are required for the application file. The application will be reviewed when the file is completed.

## General Program Requirements

The program requires a minimum of 45 credits, at least 30 of which must be completed in specifically designed Graduate Liberal Studies (LART) courses, including LART 501 (1 credit), 502 (1 credit) and 503 (2 credits). Up to 15 credits in other graduate courses may be included on recommendation of the program coordinator. A maximum of 15 graduate credits may be accepted in transfer from other accredited institutions and may have been completed previous to admission into the program; however, any courses completed at this or at other institutions more than five years previous to admission will be individually reviewed.

A grade-point average of 3.0, including an average of at least 3.0 in LART courses and a grade of B or higher in LART 501, 502, and 503, is required for continuation in and completion of an approved program.



All requirements for the degree must be completed within seven years of admission to the program.

### **The Integrating Courses and Admission to Candidacy**

**LART 501** (1 credit) and a first essay paper will be completed between the fifteenth and twenty-fourth credit earned in a minimum program. The essay shall integrate knowledge from and analyze selected issues or problems raised in previous courses. The paper shall be submitted to the program coordinator and evaluated by a M.L.A. faculty committee, which committee will consider with the student the directions for further studies.

**Candidacy** must be established prior to completion of more than 30 credits which may be counted toward the degree. It requires approval by the Graduate Dean of the program which the student files through the program coordinator.

**LART 502** (1 credit) and a second, similar essay paper will be completed between the thirtieth and and thirty-sixth credit in a minimum program. Further evidence of integration and analysis will be expected by an evaluating M.L.A faculty committee.

**LART 503** (2 credits) is to be taken prior to completing final courses and/or independent projects. In conjunction with this course the candidate will prepare a philosophic and reflective paper constituting a personal, intellectual essay exploring the relationship among ideas, new knowledge and personal growth during the course of the entire M.L.A. program. This paper is to be typed and sufficient copies provided to be used as one of the bases for the Final Discourse.

### **Final Discourse**

The Final Discourse shall be conducted by a committee of two or three Graduate Faculty of the M.L.A. program, including the advisor as chairperson. Another member of the Graduate Faculty, not a member of the M.L.A faculty will be appointed by the Graduate Dean in consultation with the advisor. The discussion will be directed mainly to the final essay, but may also deal with earlier papers and other components of the program.

At least two weeks prior to the Final Discourse the candidate shall present to the Graduate Studies Office the original and two copies of the final essay, an announcement prepared according to instructions from the Graduate Studies Office, and a request for the Final Discourse. The Discourse must be successfully conducted at least two weeks prior to the date of the Commencement at which the degree may be conferred.

### **Final Report**

After the Discourse has been successfully completed the candidate must make any corrections and additions in the final essay as required by the Committee. The essay will be deposited with the program coordinator who will verify the deposit by signing the final form. The student is responsible for submitting the final report form, with required signatures, to the Graduate Studies Office not later than two days prior to the date of Commencement.

# The Fifth Year Program

The Fifth Year Program at Moorhead State University is a post-baccalaureate program leading to a statement of completion provided by transcript but not involving candidacy for a degree. The program is designed to meet the needs of the individual teacher through one or more of the following purposes:

(1) To strengthen the in-service teacher's preparation in the teaching field (for secondary teachers usually the academic major, for elementary teachers usually the area of concentration); (2) to broaden the teacher's background and eliminate deficiencies in the undergraduate preparation; (3) to add depth and understanding to an academic major or area of concentration; (4) to allow a degree of specialization in some professional field; (5) to enable the student to take some graduate work in an academic major or area of concentration.

## Requirements for Admission

An applicant may be granted admission to the Fifth Year Program in Teacher Education provided:

(1) that a bachelor's degree in teacher education is held from a college or university accredited by the appropriate regional or national accrediting agency, or by a college recognized by the state university of the state in which the college or university is located, and if a valid teacher's certificate is possessed, provisional admission to take courses in the Fifth Year Program will be granted.

(2) that, if holding a bachelor's degree from an unaccredited institution, the applicant will be provisionally admitted to the Fifth Year Program after (a) producing evidence of holding a valid teacher's certificate in the state where teaching and (b) completing at least 15 quarter hours of creditable work.

(3) that, lack prior teaching experience, the student will complete one year's successful teaching experience before completing the requirements of the Program.

## **Registration and Academic Performance**

Prior to enrolling in any course for graduate credit, a Fifth year student must secure, in advance of registration, the permission of the advisor and the instructor of the course in question.

Students with an undergraduate GPA of under 2.5 will be required to take at least 15 hours on the undergraduate level and attain a minimum GPA of 2.5 in this work before they will be allowed to take graduate courses. In certain instances a student with less than 15 hours or work in the Fifth Year Program with an undergraduate GPA of under 2.5 can appeal for permission to take graduate courses by obtaining the permission of the advisor, the Graduate Studies Office, and the instructor of the course to be taken.

The selective retention factor will be a cumulative grade point average of 2.5. The grade point average will be figured at the end of the first nine to twelve hours of course work and will be carried forward throughout the entire program. A student whose cumulative GPA falls below 2.5, may, at the discretion of the Graduate Dean, be dropped from the program.

## **Application for Final Admission to the Program**

Before completing more than 15 hours (including transfer credits) of the program, the Fifth Year student must submit an advisor-approved outline of the courses to be taken to complete requirements for the Fifth Year Program. This application must be submitted to the Graduate Studies Office.

A maximum of 15 quarter hours of work otherwise creditable to the Fifth Year Program may be accepted in transfer from any one or a combination of the following sources: (a) credits earned at a college after the bachelor's degree has been granted by that college but prior to admission to the Fifth Year Program; (b) credits earned by extension, TV, correspondence, and tours; and (c) transfer credits from other accredited colleges or universities.

## **General Requirements for Completion of the Fifth Year Program**

(1) A minimum of 45 quarter hours shall be required for the completion of the Fifth Year Program.

(2) A minimum of one-third of the work in secondary programs shall be taken in courses open to graduate students only (i.e. in 500 courses).

(3) A minimum of one-third of the work in elementary programs shall be taken at the graduate level (i.e. in 300 or 400 "g" courses or in 500 courses).

(4) A minimum cumulative grade point average of 2.5 will be required for completion of the Fifth Year Program.

(5) Courses in which a grade of "D" is earned will not be credited toward completion of the Fifth Year Program.

(6) All requirements for the Fifth Year Program must be completed within seven years.

(7) The normal load for Fifth Year students is 12-15 credit hours per quarter for the regular academic year and 6-8 credit hours for any summer session; the smaller load in each instance being recommended if courses on the graduate level are included.

(8) The Dean of Graduate Studies shall certify completion of the Program to the Registrar, who shall note this completion on the student's permanent record. The Registrar shall notify the student on completion of the program.

(9) This program shall have clear relevance to teaching competence. (a) Students shall take a minimum of 30 hours in a single discipline and/or cognate disciplines and/or needed subject matter. (b) Students may take up to a maximum of 15 hours in professional education.

Exception: Students working for certification in special education or in remedial reading.

(10) Modification of basic program requirements must be approved through petition to the Graduate Dean.

There are two basic program tracks in the Fifth Year Program:

**The non-certification track:**

This track is open to any certificated elementary or secondary school teacher wishing to up-grade and up-date professional qualifications but not seeking an advanced graduate degree. Programs are planned to meet specific needs of the individual teacher in consultation with an assigned faculty advisor. Such programs can be designed for any teacher in any of the departments which presently have undergraduate programs leading to certification. Specific questions by prospective Fifth year students should be addressed to the Graduate Studies Office, or to the chairperson of the following departments:

Art  
Biology  
Business Education  
Chemistry  
Economics  
English  
Languages  
Geography and Geology  
Health, Physical Education and Recreation  
History  
Industrial Studies  
Mass Communications  
Mathematics  
Music  
Physics  
Political Science  
Sociology and Anthropology  
Speech Communication and Theatre Arts

**The special licensure track:**

The licensed teacher may wish to qualify for an additional licensure while working in a Fifth Year Program. Persons admitted to the Program may be assigned an advisor to plan for the the following special licensure:

Developmental Reading - Secondary  
Remedial Reading - Elementary  
Remedial Reading - Secondary  
Mentally Retarded - Educable

Mentally Retarded - Trainable

Special Learning Disabilities - Learning Disabled

Special Learning Disabilities - Emotionally Disturbed

# **Educational Administration Programs**

Programs leading to the degrees, Specialist in Education and Master of Science, are available in the field of educational administration. Both degrees provide programs in the various certification areas appropriate to elementary and secondary school administration. The degree-granting institution is the Tri-College University, a consortium composed of Moorhead State University, North Dakota State University, and Concordia College. Application forms and information may be obtained from the Graduate Studies Office.

# Programs and Courses

## Accounting Department

Graduate Faculty: Dorian Olson (Chairperson)  
Eddy Birrer, Wilbert Fischer, George Sanderson, Donald Wirries.

Courses offered by the Accounting Department may be included in the major, Business Education, for the Master of Science degree (see pages 6-10).

### Accounting Courses

Acct 355(g) Fund Accounting (4)  
Acct 410(g) Taxes and Business Decisions (4)  
Acct 430-431(g) Consolidations I-II (4 each)  
Acct 440(g) Controllershship (4)  
Acct 450-451(g) Federal and State Tax I-II (4 each)  
Acct 455(g) Advanced Taxation (4)  
Acct 460-461(g) Auditing I-II (4 each)  
Acct 465(g) Internal Auditing (4)  
Acct 470(g) Accounting Systems (4)  
Acct 480(g) Accounting Theory (4)  
Acct 498(g) Problems in Accounting (1-4)  
Acct 598 Research in Accounting (3)

## Art Department

Graduate Faculty: P. Richard Szeitz (Chairperson),  
Virginia Barsch, John Holland, Lyle Laske, Phillip Mousseau, Marcel Stratton.

### Master of Science

The degree may be earned with a major in Art Education. Requirements are those cited on pages 6-10 with the following specific conditions:

Admission applications, to be completed prior to the intended beginning of graduate studies, require the scores on the General Aptitude portion of the Graduate Record Examination and a portfolio of original work. Deficiencies in credits or quality of work will be removed by appropriate completion of undergraduate work.

A qualifying examination, administered by the department, must be passed before a student may be admitted to candidacy. The examination will cover historical works, major masters and theories of major movements in art history, visual arts, basic theories and problems of contemporary art education.

The candidate working in History or Theory should follow Plan A. The candidate with emphasis in Studio is advised to follow Plan B. Within research components the candidate must take Ed. 503, methods of Research and either Art 599, Thesis (6 credits Plan A) or Art 597, Individual Study (3 credits Plan B). In connection with Art 597 the theoretical background and the rationale of the project must be developed in the form of a short essay. The synopsis of the essay must be displayed in the exhibit as an explanatory legend of the art work which comprises the project.

### **Art Courses**

- Art 400(g) Individual Studio (1-15)
- Art 409(g) African , Oceanic, Pre-Columbian Art (4)
- Art 410(g) Ancient Classic Art (4)
- Art 411-412(g) Medieval Art I-II (4 each)
- Art 420-421(g) Renaissance I-II (4 each)
- Art 422(g) Baroque Art (4)
- Art 425(g) Art History Abroad (4-6)
- Art 430-432(g) Modern Art I-II-III (4 each)
- Art 433(g) Modern Architecture (4)
- Art 434-435(g) Art in the United States I-II (4 each)
- Art 437(g) History of Prints (4)
- Art 438(g) Oriental Art (4)
- Art 439(g) Scandinavian Art (4)
- Art 454(g) Special Studies in Elementary School Art (4)
- Art 455(g) Special Studies in Secondary School Art (4)
- Art 532 Studies in Art History (3-15)
- Art 540 Current Practices in Art Education (3)
- Art 542 Studies in Art Education (3)
- Art 552 Studies in Painting (3-15)
- Art 554 Studies in Sculpture (3-15)
- Art 560 Studies in Ceramics (3-15)
- Art 574 Studies in Graphics (3-15)
- Art 580 Seminar in Art Education (3)
- Art 581 Graduate Seminar in Art (3)
- Art 584 Studies in Graphic Design (3-18)
- Art 595 Special Problems (1-3)
- Art 597 Individual Study (1-3)
- Art 599 Thesis (1-6)

### **Biology Department**

Graduate Faculty: Thomas Collins (Chairperson), Monroe Bartel, Phyllis Harber, Oscar Johnson, Jesse Parsons, Richard Pemble, Mary Shimabukuro, Kenneth Skjegstad, Robert Tolbert, Robert Weibust.

### **Biology Courses**

- Biol 301(g) Vertebrate Embryology (4)
- Biol 302(g) Histology (4)
- Biol 343(g) Microtechnique (4)
- Biol 350(g) Microbiology (4)
- Biol 355(g) Wildlife Ecology (4)
- Biol 356(g) Plant Ecology (4)
- Biol 360(g) Pathogenic Microbiology (4)
- Biol 401(g) Endocrinology (4)
- Biol 410(g) Parasitology (4)
- Biol 414(g) Protozoology (4)
- Biol 417(g) Ornithology (4)
- Biol 423(g) Plant Anatomy (4)
- Biol 424-425(g) Plant Physiology I-II (4 each)
- Biol 433(g) Plant Morphology: The Lower Forms (4)
- Biol 434(g) Plant Morphology: The Vascular Plants (4)
- Biol 443(g) Techniques in Biological Preparations (4)
- Biol 445(g) Limnology (4)
- Biol 449(g) Cytology (4)
- Biol 450(g) Cell Physiology (4)
- Biol 455(g) Recent Developments in the Biological Sciences (2)
- Biol 470(g) Immunology (4)
- Biol 481-482-483(g) Biology Seminar I-II-III (1 each)

### **Business Administration Department**

Graduate Faculty: Wayne Alexander (Chairperson), Evelyn Larson, David Nelson, Sam Roy, Khosrou Shakoori, James Swenson, A. Clyde Volmers, Donald Wirries, Courses offered by the Business Administration Department may be included in the major, Business Education, for the Master of Science degree (see page 6)

### **Finance Courses**

- Finc 406(g) Small Business Management Consulting (2)
- Finc 456(g) Principles of Investment (4)
- Finc 457(g) Portfolio Analysis (4)



Finc 458(g) Financial Decision Making (4)

Finc 498(g) Problems in Finance (1-4)

Finc 598 Research in Finance (3)

### **Management Courses**

Mgmt 405(g) Small Business Management (4)

Mgmt 406(g) Small Business Management Consulting (2)

Mgmt 415(g) Industrial Organization and Public Policy (4)

Mgmt 416(g) Labor Economics (4)

Mgmt 421(g) Decision Analysis (4)

Mgmt 440(g) Personnel Management (4)

Mgmt 450(g) Production/Operations Management (4)

Mgmt 452 Organizational Development (4)

Mgmt 455(g) Quantitative Decision Making (4)

Mgmt 456(g) Management Information Systems (4)

Mgmt 498(g) Problems in Business Administration (1-4)

Mgmt 594 Seminar in Business Management (4)

Mgmt 598 Research in Management (3)

### **Marketing Courses**

Mktg 406(g) Small Business Management Consulting (2)

Mktg 410(g) Marketing Logistics (4)

Mktg 415(g) Industrial Marketing (4)

Mktg 420(g) Marketing Channels and Institutions (4)

Mktg 421(g) Retail Management (4)

Mktg 430(g) Sales and Sales Management (4)

Mktg 442(g) Marketing Seminar (4)

Mktg 444(g) Transnational Marketing (4)

Mktg 470(g) Independent Study (1-14)

Mktg 498(g) Problems in Marketing (1-4)

Mktg 598 Research in Marketing (3)

### **Business Education Department**

Graduate Faculty: Howard Lysne (Chairperson), Evelyn Grove.

#### **Master Of Science**

The degree may be earned, with a major designated as Business Education, according to the general requirements given on pages 6-10. Scores on the General Aptitude portion of the Graduate Record Examination are required with an application for admission. The program may include courses from the Department of Business

Education and also from the Department of Accounting and the Department of Business Administration.

### **Business Education Courses**

BEd 315(g) Consumer Education (4)

BEd 320(g) Records Management (4)

BEd 330(g) Office Management (4)

BEd 413(g) Word Processing Methods (3)

BEd 414(g) Word Processing Lab (3)

BEd 415(g) Model Office Methods and Materials (4)

BEd 443(g) Cooperative Business and Office Methods Materials (4)

BEd 490(g) Current Business Practices (4)

BEd 498(g) Problems in Business and Office Education (1-4)

BEd 530 Current Trends and Issues in Business Education (4)

BEd 570 Independent Study (1-4)

BEd 595 Special Problems (1-3)

BEd 597 Individual Study (1-3)

BEd 599 Thesis in Business Education (1-6)

### **Chemistry Department**

Graduate Faculty: Dennis Krzyzaniak (Chairperson), Dewey Brummond, Robert Drake, Nicholas Kowanko, Dennis Mathiason, B. Spencer Meeks, Judith Strong.

#### **Master of Science**

The degree may be earned with a major in Chemistry Education. Applicants must provide scores on the General Aptitude portion of the Graduate Record Examination, and a diagnostic examination is required prior to completion of the first term of enrollment. The general requirements for Plan A (page 8) apply except that 15 hours of course work must be completed in a major area in chemistry. The program must be completed within five years.

#### **Chemistry Courses**

Chem 305(g) Chemical Literature (1)

Chem 314(g) Aquatic Chemistry (3)

Chem 361(g) Introduction to Biochemistry (4)

Chem 410(g) Industrial Chemistry (3-4)



Chem 424(g) Analysis of Chemical Pollutants (3)  
 Chem 427(g) Topics in Analytical Chemistry (1-3)  
 Chem 432(g) Advanced Organic Chemistry (3)  
 Chem 437(g) Topics in Organic Chemistry (1-3)  
 Chem 438(g) Chemical Pollutants (4)  
 Chem 447(g) Topics in Physical Chemistry (1-3)  
 Chem 457(g) Topics in Inorganic Chemistry (1-3)  
 Chem 461-462-463(g) General Biochemistry, I-II-III  
 (3 each)  
 Chem 464-465-466(g) General Biochemistry Laboratory  
 I-II-III (1 each)  
 Chem 467(g) Topics in Biochemistry (1-3)  
 Chem 480(g) Seminar (1)

## Computer Science Department

Graduate Faculty: Martin Holoien (Chairperson), Ali Behforooz, Curtis Bring, Onka Sharma

### Master of Science

The degree may be earned with a major in Computer Science according to requirements give on pages 6-10, except that no course in research methods is required. Scores on the General Aptitude portion of the Graduate Record Examination are required with the application for admission.

Persons not having completed an undergraduate major in Computer Science, but having completed the equivalent of mathematics through one year of calculus, may enroll in a special three-course sequence offered during the summer session to remove deficiencies for admission in full standing.

### Course Requirement

Research: Thesis (6, Plan A) or Project (3, Plan B)  
 Major: COMS 500 (3) required Two sequences totalling 14 cr. from:

COMS 411g (4) and 511 (3), or,  
 COMS 415g (4) and 515 (3), or,  
 COMS 425g (4) and 525 (3)

At least one sequence of 9 cr. from:  
 COMS 430g (3), 431g (3) and 530 (3), or,  
 COMS 530 (3), 531 (3) and 532 (3), or,  
 COMS 520 (3), 521 (3) and 522 (3)

COMS electives: 4-10 cr.

Electives in COMS and/or other fields: 9 cr.

Students enrolled in the Master's program under Plan A are required to write a Thesis for which 6 credits of graduate study is earned. The total number of credits required under Plan A is 45 including the Thesis. Students enrolled in Plan B are required to complete 45 credits of course work as specified above. No Thesis is required under Plan B but a three-credit project must be completed in addition to the 45 credits of course work. This project is intended to integrate concepts acquired in the course work and must be approved by the major advisor.

### Computer Science Courses

COMS 410(g) Theory of Language Translation (4)  
 COMS 411(g) Compiler Construction (4)  
 COMS 415(g) Operating Systems II (4)  
 COMS 420(g) Introduction to Automata Theory (4)  
 COMS 425(g) Computer Architecture (4)  
 COMS 430(g) Computers in Education II (3)  
 COMS 431(g) Teaching Computer Science (3)  
 COMS 470(g) Computer Graphics (3)  
 COMS 500 Fundamental Structures (3)  
 COMS 511, 512 Compiler Design Theory I, II (3 ea.)  
 COMS 515 Analysis of Operating Systems (3)  
 COMS 520 Computer Center Administration (3)  
 COMS 521 Introduction to Data Base Programming (3)  
 COMS 522 Design and Analysis of Data Bases (3)  
 COMS 525 Analysis of Computer Systems (3)  
 COMS 530 Advanced Computer-Based Education (3)  
 COMS 531 Author Languages (3)  
 COMS 532 Design Principles for CAI Systems (3)  
 COMS 580 Seminar in Computer Science (1)  
 COMS 590 Advanced Topics in Computer Science (1-3)  
 COMS 595 Special Problems (1-3)  
 COMS 597 Individual Study (1-3)  
 COMS 599 Thesis in Computer Science (1-6)

## **Economics Department**

Graduate Faculty: John Trainor (Chairperson), Douglas Greelee, Daniel Knighton, Eugene Philipps.

### **Economic Courses**

Econ 410(g) Advanced Microeconomic Theory (4)  
Econ 411-412(g) Economic History of the United States I-II (4 each)  
Econ 415(g) Industrial Organization and Public Policy (4)  
Econ 416(g) Labor Economics (4)  
Econ 425(g) International Trade and Finance (4)  
Econ 450(g) Individual Study in Economics (1-4)  
Econ 460(g) Advanced Macroeconomic Theory (4)  
Econ 499(g) Economics Seminar (3-4)  
Econ 598 Research in Economics (3)

## **Education Department**

Graduate Faculty: Barbara Wasson (Chairperson), Beth Anderson, Lawrence Anderson, Leonard Bergquist, Paul Beare, Barbara Boseker, Richard Bowman, Norman Buktenica, Leslie Crawford, Joseph DiCola, Howard Freeberg, Marvin Gerhardson, Sandra Gordon, Charlotte Iiams, Ronald Kopita, Bella Kranz, Lynn Lockhart, Evelyn Lunch, Joseph Morris, Jack Neufeld, G. Max Spriggs, Joseph Thorman, Barbara Wasson, John Wasson, Thomas Williams.

The degree, Master of Science, may be earned with a major in Counseling and Guidance, Elementary Education, Remedial Reading, or Special Education. Requirements for the degree are given on page 6. The score on the Miller Analogies Test is required for admission to these programs.

### **Master of Science—Counseling and Guidance.**

The Master of Science degree (see page 6) may be earned with a major in Counseling and Guidance. Applicants are required to provide the score on the Miller Analogies Test. Applications will be reviewed each quarter.

The new student should immediately contact the program coordinator for a personal interview, assistance in initial course planning, and information regarding any new requirements of the program. Prior to application for admission to Candidacy the student must: have successfully completed 15 credits of pertinent coursework

described below with a grade of "B" or better; and provide the department with at least three written recommendations concerning professional and personal qualifications.

### **Program Requirements**

The program requires a minimum of 54 credits, 33 to 36 of which are required of all candidates. Remaining credits (18-21) may be elected on recommendation of the adviser.

Group I Research Component (9-12 credits required)  
Ed 502 (3), 503 (3), and Ed 599 (6) for Plan A or Ed 597 (3) for Plan B.

Group II Major (27 credits required)  
Ed 501 (3), 550 (3), 551 (3), 552 (3), 553 (3) 554 (3), 555 (3), 557 (6)

Group III Electives (15-18 credits required)  
Elective credits may be identified in consultation with the adviser to meet individual professional objectives.

### **Master of Science—Elementary Education**

Applicants for a Master of Science degree in Elementary Education must have completed a satisfactory undergraduate program in Elementary Education or the equivalent, and present the score on the Miller Analogies Test.

### **Course Requirements**

Group I—Research Component (minimum 9 credits)  
Ed 502 (3), 503 (3) and 599 (6) for Plan A or 597 (3) for Plan B required.

Group II—Elementary Education Major (21-24 credits)  
Ed 501 (3), 540 (3), 541 (3), 542 (3) required. Selected courses from any or all areas listed below approved by advisor and department:  
Early Childhood—471g (4), 472g (3), 473g (6)  
Curriculum and Foundation—Ed 423g (3), 488g (3), 495g (3), 497g (3)  
Counseling and Guidance—Ed 410g (3), 411g (3), 491g (3), 493g (3), 512 (3), 553 (3)  
Reading/Language Arts—Ed 425g (3), 445g (3), 446g (3), 447g (2), 448g (3), 592 (3)  
Special Education—SpEd 421g (3), 422g (3), 460g (3), 471g (3), 477g (3)

Other areas of emphasis with advisor and department consent.

**Group III—Electives (6-9 credits)**

All students are required to complete a minimum of six credits in fields that differ from the professional areas of emphasis used in Group II. In addition to those listed above are: Engl 492g (4), 493g (4), 494g (4), 520 (3), Hlth 474g (2), 476g (2-6), 540 (3), Hist 370g (4), 371g (3-4), 372g (3-4), 402g (3-4), 403g (3-4), 405g (3-4), Ind St 461g (3), Sci 390g (3), Spch 330g (3-6), 331g (3-6), 341g (3), 344g (4), 345g (3)

Other electives with advisor and department consent.

**Master of Science—Remedial Reading**

Applicants for the Master of Science degree must have completed a satisfactory undergraduate teacher education program and present the score on the Miller Analogies Test. Particular courses may be selected to augment preparation at the elementary or secondary level.

**Course Requirements**

**Group I—Research Component (9 credits minimum)**  
Ed 502 (3), 503 (3), and 599 (6) for Plan A or 597 (3) for Plan B required.

**Group II—Remedial Reading Major (24 credits minimum)**  
Ed 411g (3), 446g (2), 512 (3), 545 (3), 546 (2), 550 (3), 592 (3), and Ed 445g (3) for elementary emphasis, or Ed 448g (3) and Engl 392g (3) for secondary emphasis required.

**Group III—Electives (9 credits minimum)**

At least two courses to be taken from SpEd 420g (3), 461g (3), Psy 461g (3), 463g (3), Soc 312g (3), 418g (3), SpEd 463g (3) and/or Engl 392g (3) for elementary emphasis; Engl 491g (3) for secondary emphasis.

**Master of Science—Special Education**

Applicants must have completed an appropriate major (e.g. special education teacher program, school psychology, speech pathology and audiology, or other approved by the Graduate Faculty of Special Education) and meet the general requirements for admission to a Master of Science degree program (see page 6).

**Course Requirements**

**Group I—Research Component (minimum 9 credits).**  
Ed. 502 (3), 503 (3), and 599 (6) for Plan A or 597 (3) for Plan B required.

**Group II—Special Education Major (minimum 24 credits).**  
The program will include a practicum or internship of 3-9 credits, and may include independent studies, in addition to Thesis, to a maximum of 6 credits. Either Plan A or Plan B may be followed, with Plan A encouraged for those selecting supervisory or administrative programs.

**Group III—Electives (minimum 9 credits).**

Courses selected from psychology, sociology, education, biology, anthropology or other appropriate areas.

**Education Courses**

Ed 342(g) Human Relations Through Children's Literature (1-3)

Ed 346(g) Linguistic Foundations for Reading Instruction (3)

Ed 349(g) Developmental Reading (4)

Ed 370(g) Development of Young Children (3)

Ed 375(g) Theories of Instruction with Young Children (3)

Ed 405(g) Philosophy of Education (4)

Ed 408(g) Foundations of Oppression (3)

Ed 409(g) Self and Oppression (3)

Ed 410(g) Basic Counseling Skills (3)

Ed 411(g) Introduction to Guidance (3)

Ed 413(g) Interpersonal Communications (3)

Ed 423(g) Current Trends in Elementary Social Studies (3)

Ed 425(g) Improvement of Instruction in Reading and Language Arts (3)

Ed 442(g) Curriculum Foundations (4)

Ed 443(g) Industrial Arts for Elementary or Special Education Teachers (4)

Ed 445(g) Remedial and Corrective Reading (3)

Ed 446(g) Remedial and Corrective Reading Clinic (2)

Ed 447(g) Corrective Reading and Phonics Workshop (2)

Ed 448(g) Reading Study Skills in the Content Areas (3)

Ed 471(g) Curriculum and Instruction in Kindergarten Education (4)

Ed 472(g) Curriculum and Instruction for Early Childhood Education (3)  
 Ed 473(g) Practicum in Early Childhood Education (3-6)  
 Ed 474(g) Language Arts in Early Childhood (3)  
 Ed 475(g) Curriculum Development for Young Children (3)  
 Ed 476(g) Early Childhood Education Workshop (1-3)  
 Ed 480(g) Educational Alternatives for Learning (1-3)  
 Ed 481(g) Issues in Education (1-3)  
 Ed 488(g) Education for the Culturally Different (3)  
 Ed 490(g) Foundations of Education (3)  
 Ed 491(g) Topics in the Socio-Cultural Foundations of Education (1-5)  
 Ed 492(g) The Impact of the Educational System on Women (3)  
 Ed 493(g) Education for International Understanding (3)  
 Ed 495(g) Comparative Education (3)  
 Ed 496(g) Study Tour in Comparative and International Education (6)  
 Ed 497(g) Readings in Education (3)  
 Ed 501 Psychological Foundations of Education (3)  
 Ed 502 Statistics in Educational Research (3)  
 Ed 503 Methods of Research (3)  
 Ed 504 The School and Society (3)  
 Ed 505 Single Subject and Small Group Research Designs (3)  
 Ed 506-509 Adult Education Sequence (2 each)  
 Ed 510 Junior College-Community College Institute (2)  
 Ed 512 Study of the Individual (3)  
 Ed 530 Introduction to Educational Administration (3)  
 Ed 531 Teacher and Student Rights (3)  
 Ed 532 Strategies for Solving School Organizational Problems (3)  
 Ed 533 Computer Utilization in Classrooms (3)  
 Ed 534 School Finance (3)  
 Ed 535 The Process of Supervision (6)  
 Ed 536 Supervisory Theories (3)  
 Ed 537 Curriculum Theory and Principles (3)  
 Ed 538 Secondary School Curriculum (3)  
 Ed 539 Administration of the Secondary School (3)  
 Ed 540 Elementary Children and Learning (3)

Ed 541 Developments in Elementary Education (3)  
 Ed 542 Elementary School Curriculum (3)  
 Ed 543 Administration of the Elementary School (3)  
 Ed 544 Middle School/Junior High School Administration (3)  
 Ed 545 Diagnosis and Correction of Reading Difficulties (3)  
 Ed 546 Reading Clinic: Diagnosis (2)  
 Ed 550 Counseling Theories (3)  
 Ed 551 Advanced Counseling Theories (3)  
 Ed 552 Group Counseling (3)  
 Ed 553 Individual Appraisal (3)  
 Ed 554 Career Development Guidance (3)  
 Ed 555 Organization and Administration of Guidance Service (3)  
 Ed 556 Special Problems for Counselors (3)  
 Ed 557 Practicum in Counseling and Guidance (1-6)  
 Ed 558 Counseling the Gifted (3)  
 Ed 564 Theory and Process of Consultation (3)  
 Ed 581 Legal Aspects of Education (3)  
 Ed 582 School Management and Decision Making (3)  
 Ed 583 Computer Data Management and Decision Making (3)  
 Ed 584 School Personnel Administration (3)  
 Ed 586 School Plant Planning and Maintenance (3)  
 Ed 588 School Business Management (3)  
 Ed 589 School-Community Relations (3)  
 Ed 592 Administration and Supervision of Remedial Reading (3)  
 Ed 594 Practicum: Education Administration (1-9)  
 Ed 595 Special Problems (1-3)  
 Ed 597 Individual Study (1-3)  
 Ed 598 Seminar in School Administration and Supervision (1-6)  
 Ed 599 Thesis in Education (1-6)

#### **Special Education Courses**

SpEd 401(g) Ecological Assessment (3)  
 SpEd 411(g) Educating the Mildly Handicapped (4)  
 SpEd 412(g) Educating the Severely Handicapped (4)  
 SpEd 413(g) Instructional Strategies Mildly Handicapped: Elementary (4)  
 SpEd 414(g) Instructional Strategies Mildly Handicapped: Secondary (4)

- SpEd 415(g) Career Education for the Mildly Handicapped (3)
- SpEd 417(g) Orientation to the Physically Handicapped (3)
- SpEd 420(g) Education of the Exceptional Child (3)
- SpEd 421(g) The Gifted Child (3)
- SpEd 422(g) Curriculum and Methods for the Gifted (3)
- SpEd 423(g) Theory and Practice in Early Childhood Special Education (3)
- SpEd 424(g) Assessment Strategies with Young Handicapped Children (4)
- SpEd 425(g) Teaching Young Children with Special Needs (3)
- SpEd 426(g) Instructional Strategies with Handicapped Infants/Toddlers (4)
- SpEd 427(g) Instructional Strategies with Handicapped Preschoolers (4)
- SpEd 428(g) Family Ecology of the Handicapped (3)
- SpEd 431(g) Teaching Occupational Education to the Mentally Retarded (3)
- SpEd 435(g) Topics in Mental Retardation (3)
- SpEd 436(g) Problems in Special Education (1-3)
- SpEd 442(g) Creative Activities for Exceptional Children (3)
- SpEd 443(g) Industrial Arts for Elementary or Special Education Teachers (4)
- SpEd 444(g) Language Problems in Special Populations (3)
- SpEd 445(g) Remedial and Corrective Reading (3)
- SpEd 446(g) Remedial and Corrective Reading Clinic (2)
- SpEd 456(g) Curriculum Development and Teaching the Trainable Mentally Retarded (3)
- SpEd 457(g) Personal, Social and Vocational Education for the TMR (3)
- SpEd 458(g) Recreative Skills for the Severely Handicapped (3)
- SpEd 459(g) Methods and Materials for Language Development for the Severely Handicapped (3)
- SpEd 460(g) Education of the Emotionally Disturbed Child (3)
- SpEd 462(g) Topics in Learning Disabilities (3)
- SpEd 463(g) Measurement and Assessment in Special Education (3)
- SpEd 465(g) Special Education Reading (3)
- SpEd 466(g) Special Education Reading Clinic (2)
- SpEd 467-468(g) Practicum: I-II (6 each)
- SpEd 470(g) Guidance of the Handicapped (3)
- SpEd 471(g) Behavioral and Environmental Management (3)
- SpEd 472(g) Psychoeducational Diagnosis and Programming (3)
- SpEd 473(g) Behavior Problems in Children (3)
- SpEd 475(g) Teacher as a Resource Consultant (3)
- SpEd 477(g) Seminar in Early Childhood Education of the Handicapped (3)
- SpEd 478(g) Methods of Teaching Students with Behavioral Disorders (3)
- SpEd 479(g) Children and Adolescents in Crisis (3)
- SpEd 479(g) Children and Adolescents in Crisis (3)
- SpEd 494(g) Administration of Special Education (3)
- SpEd 505 Single Subject and Small Group Research Designs (3)
- SpEd 545 Diagnosis and Correction of Reading Difficulties (3)
- SpEd 546 Reading Clinic: Diagnosis (2)
- SpEd 562 Seminar (3)
- SpEd 564 Theory and Process of Consultation (3)
- SpEd 565 Program Development and Administration in Special Education (3)
- SpEd 567-568 Practicum I-II (3-9 each)
- SpEd 569 Advanced Practicum (3-9)
- SpEd 572 Educational Diagnosis and Programming (3)
- SpEd 590 Seminar: Current Trends in Special Education (3)
- SpEd 592 Administration and Supervision of Remedial Reading (3)
- SpEd 595 Special Problems (1-6)
- SpEd 597 Individual Study (1-3)
- SpEd 599 Thesis in Special Education (1-6)

### **Elementary Education**

The major is available in the Master of Science program (see page 23).

## English Department

Graduate Faculty: Cheng Lok Chua (Chairperson), Rufus Bellamy, Cheng Lok Chua, Marjorie Corner, Daniel Deneau, V. Denis Flood, Allan Hanna, Bernard Heringman, Gary Litt, Joseph Miller, Robert Pender, Mary Ann Pryor, John Sherman, Marie Tarsitano, Donald Short, Rosemary Smith, Keith Tandy, William Woolwine.

### English Courses

Engl 391(g) Teaching English in Secondary Schools (4)  
Engl 392(g) Adolescent Literature (3)  
Engl 393(g) Grammar Usage for Teachers (3)  
Engl 408(g) Studies in American Literature (4)  
Engl 410(g) Studies in British Literature (4)  
Engl 414(g) Advanced Shakespeare (4)  
Engl 430(g) Individual Author (4)  
Engl 440(g) Advanced Genre Studies (4)  
Engl 450(g) Critical Traditions (4)  
Engl 480(g) Advanced World Literature (4)  
Engl 488(g) Advanced Creative Writing (4)  
Engl 491(g) Introduction to Descriptive Linguistics (4)  
Engl 492(g) Transformational Grammar (4)  
Engl 493(g) History of the English Language (4)  
Engl 494(g) American English (4)  
Engl 498(g) Tutorial (1-3)  
Engl 500 Literary Scholarship (3)  
Engl 510 British Literature (3)  
Engl 520 American Literature (3)  
Engl 590 Special Topics (3)  
Engl 598 Directed Readings (3)

## Geography and Geology Department

Graduate Faculty: Eleanor Ritchie

### Geography Courses

Geog 410(g) Regional Geography Seminar (4)  
Geog 411(g) Geographic Factors in Cultural Development (3)  
Geog 420(g) Historical Geography of the United States (3)  
Geog 444(g) Seminar in Geographic Thought (2)  
Geog 480(g) Seminar in Conservation (3)  
Geog 490(g) Special Problems in Geography (1-4)  
Geog 495(g) Field Techniques in Geography (4)

## Health, Physical Education, and Recreation Department

Graduate Faculty: Loel Frederickson (Chairperson), Dwaine Hoberg, Orlow Nokken, Janet Paulson, William Thomas

### Health Courses

Hlth 410(g) Consumer Health Education (3)  
Hlth 412(g) Marriage and Family Life Education (4)  
Hlth 415(g) Design and Evaluation of Community Health Education Programs (3)  
Hlth 465(g) Organization and Administration of School Health Education (3)  
Hlth 474(g) Workshop in Health Education (2)  
Hlth 476(g) Seminar in Health Problems (2-6)  
Hlth 540 Problems in Health Education (3)  
Hlth 565 Coordination of School Health Education (3)

### Physical Education Courses

PE 380(g) Supervision of Physical Education in the Elementary School (4)  
PE 421(g) Physiology of Exercise (3)  
PE 452(g) Adapted Physical Education (3)  
PE 453(g) Physical Education for the Mentally Retarded (3)  
PE 475(g) Administration of Athletics (3)  
PE 495(g) Administration of Physical Education (3)  
PE 505 History and Philosophy of Physical Education (3)  
PE 540 Problems in Physical Education (3)  
PE 560 Studies in Athletic Training (3)  
PE 574 Tests and Measurements in Physical Education (3)  
PE 595 Special Problems (1-3)

### Recreation Courses

Rec 465(g) Organization and Administration of Recreation (3)  
Rec 540 Problems in Recreation (3)



## **History Department**

Graduate Faculty: I. Kenneth Smemo (Chairperson), Dieter Berninger, Robert Davies, William Eagan, Christopher Hong, Murray Kranz, Lysle Meyer, Victor Peters, Nelson Whyatt.

### **History Courses**

Hist 305(g) Modern Middle East (4)  
Hist 307(g) Studies in Asian History (3-4)  
Hist 308(g) Studies in African History (3-4)  
Hist 309(g) Studies in Latin American History (3-4)  
Hist 310(g) Studies in European History (3-4)  
Hist 311(g) Studies in North American History (3-4)  
Hist 312-313-314(g) Ancient History I-II-III (4 each)  
Hist 315(g) Medieval Europe (3)  
Hist 316(g) The Renaissance (3)  
Hist 317(g) The Reformation (3)  
Hist 318-319(g) History of Germany I-II (4 each)  
Hist 325(g) French Revolution and Napoleon (4)  
Hist 331-332(g) Russian History I-II (4 each)  
Hist 338-339(g) Intellectual History of Western Civilization I-II (4 each)  
Hist 340-341 History of Scandinavia I-II (4 each)  
Hist 355(g) The Scandinavian Heritage in America (4)  
Hist 357-358(g) United States Foreign Relations I-II (3 each)  
Hist 364-365(g) Economic History of the United States I-II (4 each)  
Hist 366-367(g) Constitutional History of the United States I-II (4 each)  
Hist 368-369(g) Social and Intellectual History of the United States I-II (4 each)  
Hist 370(g) The American West (4)  
Hist 371-372(g) Colonial America I-II (3-4 each)  
Hist 375(g) Women in United States History (3-4)  
Hist 377(g) Afro-American History (3-4)  
Hist 381-382(g) History of Canada I-II (3 each)  
Hist 402(g) Seminar In African History (3-4)  
Hist 403(g) Seminar in Latin American History (3-4)  
Hist 404(g) Seminar in European History (3-4)  
Hist 405(g) Seminar in North American History (3-4)  
Hist 560 Tutorial in History: Graduate (1-3)  
Hist 595 Special Problems (1-3)

## **Humanities Department**

Graduate Faculty: Glenn Ringstad (Chairperson), Joyce Flint, John Gibbs, James Stevens.

### **Humanities Courses**

Hum 310(g) Women's Studies (4)  
Hum 311(g) Special Topics in Women's Studies (1-4)  
Hum 351(g) American Religion (4)  
Hum 410(g) Directed Readings in Women's Studies (1-4)  
Hum 411(g) Christian Origins (4)

## **Industrial Studies Department**

Graduate Faculty: Wade Swenson (Chairperson), Clyde Kale, Leland White.

### **Industrial Studies Courses**

IndS 420(g) Wood Technology (4)  
IndS 430(g) Tour of Industry (1-2)  
IndS 444(g) Industrial Design (3)  
IndS 450(g) Graphic Arts Technology (4)  
IndS 461(g) Career Education (3)  
IndS 480(g) Special Problems (1-6)  
IndS 493(g) Occupational Safety (4)  
IndS 493(g) Trends and Developments in Industrial Education (3)  
IndS 505 History of Industrial Education (3)  
IndS 510 Current Issues of Industry (3)  
IndS 595 Special Problems (1-3)

### **Vocational Education Courses**

VOED 438(g) Occupational Analysis (3)  
VOED 440(g) Organization & Administration of Vocational Programs (3)  
VOED 441(g) Measurement in Vocational Education (3)  
VOED 443(g) Coordination Techniques of Vocational Education (3)  
VOED 446(g) Visual Materials for Vocational Education (2)  
VOED 480(g) Special Problems in Vocational Education (1-6)  
VOED 485(g) Vocational Guidance (3)  
VOED 493(g) Occupational Safety (4)  
VOED 495(g) Philosophy and Practices of Vocational Education (3)

- VOED 496(g) Literature of Vocational Education (3)  
 VOED 497(g) Curriculum Planning in Vocational Education (3)

### **Languages Department**

Edward Clark (Chairperson), Graduate Faculty: Dolores Buttry, Hi-Sook Hwang, James Kaplan, Johanna Neuer, G. Theodore Schaum.

#### **French Courses**

- Fren 480(g) Special Topics in French Literature and Culture (2-4)  
 Fren 487(g) Studies in the French Language (3)

#### **German Courses**

- Ger 440(g) Advanced Seminar in German Literature, Culture, and Language (3)  
 Ger 480(g) Special Topics in German Literature and Culture (2-4)

#### **Spanish Courses**

- Span 401-402-403(g) Advanced Spanish Composition and Conversation (4 ea.)  
 Span 431(g) Nineteenth Century Novel of Spain (3)  
 Span 432(g) Twentieth Century Novel of Spain (3)  
 Span 433(g) Twentieth Century Poetry and Drama of Spain (3)  
 Span 434-435(g) Spanish American Prose Fiction I-II (3 each)  
 Span 436(g) Latin-American Poetry, 1890 to Present (3)  
 Span 480(g) Special Topics in Spanish Literature and Culture (2-4)

### **Liberal Arts**

Liberal Arts courses are intended for persons enrolled in the Master of Liberal Arts program. Others may register with permission of instructor.

- LART 501-2-3 Integrational Courses, (1-1-2)  
 LART 513 The Human Spirit in Art (3-4)  
 LART 515 Ethics: The Moral Dimensions of Life (3-4)  
 LART 517 Technology, Bureaucracy and Identity in Modern America (3-4)  
 LART 521 Existentialism and Literature (3-4)  
 LART 523 Life Style and Disease (3-4)

- LART 525 The Marxist Worldview (3-4)  
 LART 527 Imagination, Reform and the Urban Transformation (3-4)  
 LART 529 The Mythic Frontier in American Culture (3-4)  
 LART 531 Dimensions of Drama (3-4)  
 LART 533 Genetics and Society (3-4)  
 LART 535 Gender Role and Sexuality (3-4)  
 LART 537 The Musical Experience; Reflections in Sound (3-4)  
 LART 539 Energy and Environment (3-4)  
 LART 541 Global Social Structure, Conflict and Change (3-4)  
 LART 543 Western and Asian Expression (3-4)  
 LART 545 The Classical Roots of Modern Culture (3-4)  
 LART 547 The Ecological Perspective (3-4)  
 LART 550 Special Topics (1-4)  
 LART 590 Independent Study/Project (1-6)

### **Mass Communications Department**

Melva Moline (Chairperson), Graduate Faculty: Allen Carter

#### **Mass Communications Courses**

- MC 440(g) Communication Law and Civil Rights (3)  
 MC 465(g) Investigative Processes (3)  
 MC 496(g) News-Editorial Workshop (1-3)  
 MC 497(g) Advertising-Public Relations Workshop (1-3)  
 MC 580 Problems in Mass Communications (1-4)

### **Master of Business Administration**

Courses are a part of the degree program (page 11) and may be carried by others having appropriate prerequisites.

- MBA 500 Professional Communication (4)  
 MBA 501 Statistics for Management (4)  
 MBA 502 Managerial Microeconomic Analysis (4)  
 MBA 504 Macroeconomic Policy (4)  
 MBA 510 Marketing Administration (4)  
 MBA 529 Corporate Financial Reporting (4)  
 MBA 530 Managerial Accounting (4)  
 MBA 542 Financial Management (4)  
 MBA 550 Business and Society (4)



MBA 551 Organizational Theory and Behavior (4)  
MBA 555 Quantitative Analysis for Management (4)  
MBA 560 Organizational Policy (4)

### **Mathematics Department**

Graduate Faculty: Milton Legg (Chairperson), James Hatzenbuehler, Don Mattson, Bill Ritchie, Derald Rothmann, Warren Thomsen, James Wallen, Fike Zahroon.

#### **Mathematics Courses**

Math 341(g) Special Methods in Mathematics in the Elementary School (3)  
Math 400(g) History of Mathematics (3)  
Math 415(g) Foundations of Geometry (4)  
Math 416(g) Modern Geometry (4)  
Math 424-425(g) Abstract Algebra I-II (4 each)  
Math 427(g) Linear Algebra (4)  
Math 444(g) Diagnosis and Remediation of Learning Difficulties in Mathematics (3)  
Math 450-451(g) Numerical Analysis I-II (4,3)  
Math 461-462(g) Introduction to Real Analysis I-II (4 each)  
Math 466(g) Fourier Series and Boundary Value Problems (4)  
Math 467(g) Complex Analysis (4)  
Math 474(g) Probability (4)  
Math 475-476(g) Mathematical Statistics I-II (4 each)  
Math 480(g) General Topology (4)  
Math 495(g) Theory of Numbers (4)  
Math 540 Problems of Secondary School Mathematics (3)  
Math 590 Special Problems in Mathematics (1-6)

### **Music Department**

Graduate Faculty: Robert Pattengale (Chairperson), Ruth Dahlke, David Ferreira, Henry Gwiazda, Earnest Harris, Albert Noice, Andrew Smith.

#### **Master of Science**

The degree may be earned with a major in Music Education according to the general requirements given on pages 6-10.

The degree is designed for vocal and instrumental public school teachers. Scores on the General Aptitude portion of the Graduate Record Examination are required with

the application for admission, and an initial qualifying examination is taken during the period of the first enrollment. Any determined deficiencies must be made up at the undergraduate level.

Plan A is designed for thesis research. Students interested in presenting Lecture—Recitals should follow Plan B.

The program should include, in addition to 9 hours of professional education, 27 hours of music with elective hours in the major or related areas.

#### **Music Courses**

Mus 316(g) Composition (3)  
Mus 329(g) Women's Chorus (1)  
Mus 330(g) Concert Band (1)  
Mus 331(g) Symphonic Wind Ensemble (1)  
Mus 332(g) Stage Band (1)  
Mus 333(g) Orchestra (1)  
Mus 335(g) Concert Choir (1)  
Mus 336(g) Festival Choir (1)  
Mus 337(g) Pop Choir (1)  
Mus 338(g) Chamber Singers (1)  
Mus 373(g) American Music (3)  
Mus 378(g) Collegium Musicum (1)  
Mus 379(g) Introduction to Ethnomusicology (3)  
Mus 382(g) Solo and Ensemble Literature for Brass (1)  
Mus 383(g) Solo and Ensemble Literature for Woodwinds (1)  
Mus 391(g) Survey of Music Literature: Solo Song (3)  
Mus 392(g) Survey of Music Literature: Orchestra (3)  
Mus 393(g) Survey of Music Literature: Choral (3)  
Mus 394(g) Survey of Music Literature: Chamber (3)  
Mus 395(g) Survey of Music Literature: Keyboard (3)  
Mus 396(g) Survey of Music Literature: Wind Band (3)  
Mus 398(g) Chamber Music (1)  
Mus 399-404(g) Small Ensemble (1 each)  
Mus 406(g) Opera (2)  
Mus 409(g) Psychology of Music (3)  
Mus 410(g) Orchestration (3)

Mus 411(g) Band Arranging (3)  
 Mus 413(g) 16th Century Polyphony (3)  
 Mus 414(g) Techniques of Musical Interpretation (1-3)  
 Mus 430-431(g) Electronic Music I-II (3 each)  
 Mus 432(g) Projects in Electronic Music (1-3)  
 Mus 441-442(g) Piano Pedagogy I-II (2 each)  
 Mus 443(g) Pedagogy of Theory (3)  
 Mus 444(g) String Methods and Materials (2)  
 Mus 445(g) Stage Band Methods and Materials (2)  
 Mus 446-447(g) Voice Pedagogy I-II (1 each)  
 Mus 450-468(g) Applied Music Performance Level IV (1-2 each)  
 Mus 470(g) Advanced Conducting (2)  
 Mus 502 Research in Music and Music Education (3)  
 Mus 504 Workshops in Secondary School Music (2)  
 Mus 505 Graduate Recital (1-2)  
 Mus 510 Directed Study in Music Theory (3)  
 Mus 540 Problems in Teaching and Supervising Music (3)  
 Mus 541 Advanced Studies in Teaching Elementary School General Music (3)  
 Mus 542 Advanced Studies in Teaching Vocal Music in Secondary Schools (3)  
 Mus 545 Voice-Choral Techniques Institute (3)  
 Mus 550-568 Applied Music Performance Level V (1-2 each)  
 Mus 570 Introduction to Musicology (3)  
 Mus 571 Music in the Middle Ages (3)  
 Mus 572 Music in the Renaissance (3)  
 Mus 573 Music in the Baroque (3)  
 Mus 574 Music in the Classic Era (3)  
 Mus 575 Music in the Romantic Era (3)  
 Mus 576 Music in the 20th Century (3)  
 Mus 595 Special Problems (1-3)  
 Mus 597 Individual Study (1-3)  
 Mus 599 Thesis in Music (1-6)

### **Philosophy Department**

Graduate Faculty: Mark Chekola (Chairperson), Arnold Johanson, Charles Magel, David Myers.

#### **Philosophy Courses**

Phil 380(g) Plato (4)  
 Phil 385(g) Continental Rationalism (4)  
 Phil 390(g) British Empiricism (4)

Phil 405(g) Ethical Theory (4)  
 Phil 440(g) Seminar (1-4)  
 Phil 490(g) Independent Study (2-4)

### **Physics Department**

Graduate Faculty: Roger Sipson (Chairperson), Walter Wesley, Hsin-Yang Yeh.

#### **Physics Courses**

Phys 331-332(g) Intermediate Mechanics II—III (3 each)  
 Phys 345(g) Aerospace Education Workshop (4)  
 Phys 370-371(g) Electromagnetic Theory I-II (3 each)  
 Phys 372(g) Optics (3)  
 Phys 430(g) Introduction to Wave Mechanics (3)  
 Phys 432(g) Nuclear and Solid State Physics (3)  
 Phys 490(g) Physics Seminar (1 each)

### **Political Science Department**

Graduate Faculty: Anoushiravan Khoshkish (Chairperson), David Flint.

#### **Political Science Courses**

Pol 310(g) Scope and Method (3)  
 Pol 311(g) American Political Thought (4)  
 Pol 312(g) Communist and Marxist Foundations of Government (3)  
 Pol 341(g) Policy and Administration (3)  
 Pol 352(g) Political Problems in Developing Countries (3)  
 Pol 355(g) Politics of Scandinavia (3)  
 Pol 360(g) American Foreign Policy (4)  
 Pol 361(g) Topics in International Law (3 each, may be repeated)  
 Pol 362(g) Topics in International Organizations (3 each, may be repeated)  
 Pol 410(g) Topics in Western Political Thought (4 each, may be repeated)  
 Pol 411(g) Eastern Political Thought (3)  
 Pol 420(g) Seminar in American Politics (3)  
 Pol 430(g) Topics in Constitutional Law (2-4 each, may be repeated)  
 Pol 431(g) Social Work and the Law (3)  
 Pol 455(g) Topics in Comparative Government (2-4 each, may be repeated for credit)  
 Pol 460(g) International Politics (4)

Pol 461(g) Independent Study in Political Science (1-6)  
Pol 490 Graduate seminar in Political Science (2-4)

## **Psychology Department**

Graduate Faculty: Phillip Rice(Chairperson), Bradley Bremer, Rudolph Chang-Yit, David Cole, James Condell, Richard Kolotkin, Richard Townsend, Helen Wilson.

### **Master of Science**

The degree may be earned with a School Psychologist major. Requirements are those cited on pages 6-10 with the following specific conditions:

In addition to the general requirements for admission, the applicant must submit an undergraduate grade point average of at least 3.0 (B), the preparation to include at least 12 quarter hours of general or introductory psychology. Scores of 500 on both the Verbal and Quantitative portions of the Graduate Record examination are required. A letter of intent specifying career goals and research interests, and three letters of recommendation must be provided. Students are admitted only on a full-time basis. Limited enrollment.

Admission to candidacy is determined by a departmental committee. The curriculum is designed to meet requirements for School Psychologist I licensure in the State of Minnesota. Licensure in a teaching field is not required for School Psychologist I licensure.

The program must be completed under Plan A, the thesis being either research or theory-oriented.

### **Course Requirements**

Group I—Research Component (12 hours minimum)  
Ed 501, 502, 503, Psy 599 required.

Group II—School Psychology Major (26 hours minimum)  
Psy 461g, 463g, 500, 501, 502, 503, 504, 505, 506, required.

Group III—Related Areas (12 hours minimum).  
Curriculum or education foundations (3), learning or cognitive processes/developmental (3), special education (6).

The department also offers a sixth-year, part-time program of study leading to **School Psychology Level II** licensure in the State of Minnesota. The program requires completion of Psy 560, 561, 562, 563, 564, 565, 575 and electives from education, counseling, psychology, remedial reading, social work, sociology, special education, speech pathology, child development and family relations.

### **Psychology Courses**

Psy 401(g) Child Psychology (3)  
Psy 402(g) Adolescent Psychology (3)  
Psy 403(g) Adulthood and Aging (3)  
Psy 442(g) Learning (4)  
Psy 444(g) Motivation and Emotion (4)  
Psy 445(g) Physiological Psychology (4)  
Psy 446(g) Perception (4)  
Psy 447(g) Comparative Psychology (4)  
Psy 448(g) Cognition (4)  
Psy 461(g) Theories of Personality (3)  
Psy 463(g) Abnormal Psychology (3)  
Psy 465(g) Clinical Psychology (3)  
Psy 470(g) History and Systems of Psychology (4)  
Psy 481(g) Seminar in Psychology (4)  
Psy 491(g) Problems in Psychology (4)  
Psy 495(g) Field Work in Psychology (2-4)  
Psy 500 Seminar/Practicum in Psychology (2)  
Psy 501 Introduction to School Psychological Services (3)  
Psy 502 Theory and Principles of Measurement (3)  
Psy 503 Individual Psychological Testing (3)  
Psy 504 Advanced Individual Psychological Testing (3)  
Psy 505-506 Practicum in School Psychology I-II (3 each)  
Psy 560-562-564 School Psychology: Advanced Practicum (5 each)  
Psy 561-563-565 Advanced Seminar: Level II School Psychology (2 each)  
Psy 575 Advanced Seminar: Assessment of the Infant and the Young Child (3)  
Psy 581 Readings in Psychology (2-4)  
Psy 599 Thesis in Psychology (1-6)

### **Remedial Reading**

The major is available in the Master of Science program (see page 24).

### **School Psychology**

The major is available in the Master of Science program (see Psychology Department).

### **Social Work Department**

Graduate Faculty: Kathleen Powell (Chairperson), Richard DuBord, Larry Foster, Nancy Guiland, Emma Gross, Gary Jacobson, Mary Mitchell, Sandra Robin, James Svobodny, Mary Lou Zitter.

#### **Social Work Courses**

SW 406(g) Advocacy (4)  
SW 407(g) Social Group Work (4)  
SW 408(g) Community Organization (4)  
SW 409(g) Social Work with the Elderly (4)  
SW 425(g) Topical Seminar in Social Work (1-9)

### **Sociology and Anthropology Department**

Graduate Faculty: Anne Brunton (Chairperson), Joel Charon, Mark Hansel, Michael Hughey, Ray Kawaguchi, Michael Michlovic, David Olday, Nancy Parlin, Swaran Sandhu

#### **Anthropology Courses**

Anth 445(g) Seminar in Anthropology (4)  
Anth 461(g) Readings in Anthropology (1-8)

#### **Sociology Courses**

Soc 312(g) Sociology of Complex Organizations (3-4)  
Soc 411(g) Current Sociology (3)  
Soc 414(g) Topics in Political Sociology (3)  
Soc 417(g) Topics in Sociology of Change (3)  
Soc 418(g) Sociology of Education (3)  
Soc 420(g) Trends in American Society (3-4)  
Soc 425(g) Seminar in Sociology (3)  
Soc 449(g) Topics in Social Stratification (3)  
Soc 452(g) Topics in Advanced Research Techniques (3)  
Soc 461(g) Readings in Sociology (1-6)  
Soc 500-501 Sociological Theory I-II (3 each)  
Soc 510 Individual Research (3-6)  
Soc 512 Topical Seminar in Sociology (3-6)  
Soc 560 Studies in Sociology (3)

### **Special Education**

The major is available in the Master of Science program (see page 24).

### **Speech Communication and Theatre Arts Department**

Graduate Faculty: Delmar Hansen (Chairperson), Robert Badal, Timothy Choy, Carol Gaede, Virginia Gregg.

#### **Master of Science**

The degree may be earned with a major in Educational Theatre. Scores on the General Aptitude portion of the Graduate Record Examination are required with the application for admission. The general requirements (pages 6-10) apply.

This program is available to qualified students who seek careers in the educational or professional theatre. Applicants should present an undergraduate major or minor in theatre, although exceptions may be made for promising applicants whose undergraduate preparation is in cognate fields such as English, art, or music. Those applicants who lack a well-balanced background in theatre may expect that additional coursework to correct deficiencies will be required by their major advisor.

In addition to completing the research component and nine hours of professional education, the student is advised to concentrate in either two or three of the following areas: dramatic literature and theatre history; technical theatre, acting and directing; or educational theatre. For those students without solid undergraduate preparation in dramatic literature and theatre history, the Department recommends inclusion of this area, since the comprehensive examination demands a thorough understanding of the history, literature, and theory of the dramatic art.

#### **Speech Courses**

Spch 340(g) The Teaching of Speech (4)  
Spch 343(g) High School Speech and Drama Activities (4)  
Spch 345(g) Speech in the Elementary Classroom (3)  
Spch 416(g) Special Projects in Speech Communication (4)  
Spch 540 Problems in Speech Education (3)

### **Speech Courses**

- Spch 322,324,326(g) Development of the Drama I,II,III (4 each)  
Spch 330,331(g) Dramatic Production I,II (3-6 each)  
Spch 332(g) Stage Movement (4)  
Spch 333(g) Stage Voice (4)  
Spch 334,336(g) Stage Design I,II (4 each)  
Spch 337(g) Stage Lighting (4)  
Spch 340(g) Teaching Speech (4)  
Spch 341(g) Creative Dramatics (3)  
Spch 342(g) Children's Theater (3)  
Spch 344(g) Principles of Play Direction (4)  
Spch 345(g) Speech in the Elementary School (3)  
Spch 416(g) Special Problems in Speech/Communication (4)  
Spch 429(g) Advanced Play Direction (4)  
Spch 430(g) Styles of Directing (4)  
Spch 431(g) Styles of Acting (4)  
Spch 434(g) Special Projects in Theatre Arts (4)  
Spch 437(g) Styles of Stage Design (3)  
Spch 438(g) Contemporary Playwrights (4)  
Spch 520 Seminar in Educational Theatre (3)  
Spch 522 Dramatic Theory and Criticism (3)  
Spch 595 Special Problems (1-3)  
Spch 597 Individual Study (1-3)  
Spch 599 Thesis in Speech (1-6)

### **Speech/Language/Hearing Sciences Department**

Graduate Faculty: Arne Teigland (Chairperson), Louis DeMaio, K. Dale Gronhovd, Bruce Hanson, LaRae McGillivray, Davis Anthony Scott, Marie Swanson

#### **Master of Science**

This department offers a program leading to the Master of Science Degree in Speech/Language Pathology and Audiology. An undergraduate major in Speech/Language/Hearing Sciences (or the equivalent) is recommended but not required for admission to the graduate program. The applicant who has limited or no background in this area of study will be expected to remove deficiencies by taking basic undergraduate prerequisites for which no graduate credit will be allowed. Applicants are informed that more than one year of full-time study will be required

to complete the minimum of 55 credits required for the degree.

Most candidates for the master's degree will want to qualify for certification from the American Speech-Language-Hearing Association and should keep these professional standards in mind when planning their graduate studies. This certification requires a total of 90 quarter hours of credit constituting a well-integrated program (45 of these credits must be in courses that are available for graduate credit at the institution in which they are taken) and 300 clock hours of supervised clinical experience (150 of these hours must be accumulated at the graduate level). The candidate should allow sufficient time and plan the program carefully with the advice and consultation of the advisor if wishing to meet certification requirements as well as degree requirements.

(Although such credits customarily are taken in conjunction with the undergraduate degree, additional courses in human relations, health, and other areas are either required or recommended for students who wish to qualify for licensure from the Minnesota State Department of Education.)

In addition to graduate coursework in Speech/Language Pathology and Audiology, candidates may select courses in such related areas of study as counseling, linguistics, psychology, special education, and speech. Work in Professional Education is not required but may be included with electives.

#### **Course Requirements**

A minimum of 55 credits is required to complete the program under either Plan A or Plan B.

Group I—Research Component (6-9 credits); SLPA 501 (3) and either SLPA 599 (6) for Plan A or SLPA 597 (3) for Plan B.

Group II—Major (33-36 credits); a minimum of 21 credits of departmentally approved coursework offered by the department and 12 to 15 credits of clinical practicum and internship.

Group III—Electives (10-16 credits).

### **Speech/Language Pathology and Audiology Courses**

SLHS 401g Psycholinguistics (3)  
SLHS 422g Organic Speech Disorders in Children (3)  
SLHS 423g Organic Speech Disorders in Adults (4)  
SLHS 424g Fluency Disorders (4)  
SLHS 444g Language Problems: Special Populations (3)  
SLHS 447g Diagnostic and Appraisal Procedures (4)  
SLHS 491g Independent Study (1-3)  
SLHS 499g Topical Workshop (1-4)  
SLPA 501 Research in SLPA (3)  
SLPA 509 Seminar in Scientific Topics (3)  
SLPA 521 Seminar in Articulation (3)  
SLPA 522 Seminar in Child Language (3)  
SLPA 523 Seminar in Voice (3)  
SLPA 524 Seminar in Fluency (3)  
SLPA 541 Language Assessment & Remediation (3)  
SLPA 542 Advanced Clinical Procedures (3)  
SLPA 543 Seminar in Supervision (3)  
SLPA 544 Supervision Practicum (1)  
SLPA 546 Clinical Practicum: Speech/Lanaguage (1)  
SLPA 547 Program Management in SLPA (3)  
SLPA 548 Internship (6)  
SLPA 571 Seminar in Rehabilitative Audiology (3)  
SLPA 576 Clinical Practicum: Audiology (1)  
SLPA 591 Topicsl Seminar in SLPA (3)  
SLPA 593 Readings in SLPA (1-3)  
SLPA 595 Seminar in Professional Issues (3)  
SLPA 597 Research Project (1-3)  
SLPA 599 Thesis (1-6)

### **Human Rights/Equal Opportunity**

The State University System acknowledges its responsibility to ensure equal employment and educational opportunities without regard to race, creed, color, religion, national origin, sex, age, reliance on public assistance, physical disability, marital status, or inclusion in any group or class against which discrimination is prohibited by State or Federal law, including Vietnam Era veterans. Furthermore, Moorhead State University will continue to develop and implement timely and comprehensive affirmative action procedures aimed at removing barriers to equal employment opportunity.

Inquiries or grievances related to Affirmative Action or Title IX should be directed to Evelyn J. Swenson, Affirmative Action/Title IX Coordinator, 291 Livingston Lord Library, MSU, Moorhead, MN 56560. (218) 236-2922. Inquiries or grievances related to Section 504 of the Rehabilitation Act of 1973 as amended, which protects the handicapped from discrimination, should be directed to Melvin Schmitz, MSU 504 Coordinator, Owens 210, MSU, Moorhead, MN 56560 (218) 236-2131.



# Academic Calendar

**1982-83**

|   | Fall              | Winter            | Spring           | Summer,<br>Session 1 | 1982<br>Session 2 |
|---|-------------------|-------------------|------------------|----------------------|-------------------|
| Registration and payment of fees  | Sept. 7-8         | Dec. 29           | Mar. 7           | June 13              |                   |
| Classes begin   | Sept. 9           | Dec. 29           | Mar. 7           | June 13              | July 18           |
| Last day to apply for Oral Examination<br>for degree in term                    | Oct. 22           | Jan. 28           | Apr. 22          |                      | July 22           |
| Last day to complete Written<br>Comprehensive Examination for<br>degree in term | Oct. 29<br>Nov. 5 | Feb. 4<br>Feb. 11 | Apr. 29<br>May 6 |                      | July 29<br>Aug. 5 |
| Last day for Oral Examination   |                   |                   |                  |                      |                   |
| Last day to submit Thesis to Library<br>and Final Report for degree in term     | Nov. 17           | Feb. 23           | May 18           |                      | Aug 17            |
| Final Examinations  | Nov. 18-20        | Feb. 23-25        | May 17-19        | July 10              | Aug. 19           |
| Commencement  |                   |                   | May 20           |                      | Aug. 19           |

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